

JUN 26 2001

SEARCH CENTER 1600/290646

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/491,982DATE: 06/05/2001
TIME: 12:20:16Input Set : A:\MDSP-P02-180 SeqList.txt
Output Set: C:\CRF3\06052001\I491982.raw

ENTERED

3 <110> APPLICANT: Shaughnessy, S.
4 Austin, R.
6 <120> TITLE OF INVENTION: OSTEOPOROSIS TREATMENT
8 <130> FILE REFERENCE: MDSP-P02-180
10 <140> CURRENT APPLICATION NUMBER: 09/491,982
11 <141> CURRENT FILING DATE: 2000-01-27
13 <150> PRIOR APPLICATION NUMBER: 09/314,152
14 <151> PRIOR FILING DATE: 1999-05-19
16 <160> NUMBER OF SEQ ID NOS: 11
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 20
22 <212> TYPE: PRT
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1
26 Arg Arg Leu Arg Ala Ser Trp Thr Tyr Pro Ala Ser Trp Pro Cys Gln
27 1 5 10 15
29 Pro His Phe Leu
30 20
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 20
35 <212> TYPE: PRT
36 <213> ORGANISM: Homo sapiens
38 <400> SEQUENCE: 2
39 Thr Tyr Pro Ala Ser Trp Pro Cys Gln Pro His Phe Leu Leu Lys Phe
40 1 5 10 15
42 Arg Leu Gln Tyr
43 20
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 1140
48 <212> TYPE: DNA
49 <213> ORGANISM: Mus musculus
51 <400> SEQUENCE: 3
52 atgagcagca gctgctcagg gctgaccagg gtcctggtgg ccgtggctac agccctggtg 60
53 tcttcctcct cccccctgccc ccaagcttgg ggtcctccag ggttccagta tggacaacct 120
54 ggcaggcccg ttagtgcgtg ctgccccggg gtgagtgctg ggactccagt gtcctggtt 180
55 cgggatggag attcaaggct gctccagggc cctgactctg gtttaggaca caaactggc 240
56 ttggcccgagg tggacagccc ttagtgaaggc acttatgtct gccagaccct ggtatggtta 300
57 tcagggggca tggtgaccct gaagctgggc tttccccccag cacgtcctga agtctcctgc 360
58 caagcggtag actataaaaa ctctcctgt acttggagtc caggccaggt cagcggttt 420
59 cccacccgct accttacttc ctacagggaa aagacgctgc caggagctga gagtcagagg 480
60 gaaagtccat ccacccggcc ttggccgtgt ccacaggacc ctctggaggc ctcccgatgt 540
61 gtggccatggc gggcagagtt ctggagtgag taccggatca atgtgaccga ggtgaaccca 600
62 ctgggtgcca gcacgtgcct actggatgtg agattacaga gcatttgcg tcctgatcca 660
63 ccccaaggac tgcgggtgga atccgtaccc agttacccga gacgcctgca tgccagctgg 720
64 acataccctg cctcctggcg tcgccaaccc cactttctgc tcaagttccg gttgcaatac 780
65 cgaccagcac agcatccacg gtggccacg gtggagccca ttggcttggaa ggaagtgata 840

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/491,982

DATE: 06/05/2001
TIME: 12:20:16

Input Set : A:\MDSP-P02-180 SeqList.txt
Output Set: C:\CRF3\06052001\I491982.raw

66 acagatgctg tggctggct gccacacgcg gtacgagtca gtgccaggga ctttctggat 900
 67 gctggcacct ggagccctg gagccagag gcctgggtta ctcctagcac tggccccctg 960
 68 caggatgaga tacctgattg gagccaggga cacggacagc agctagaggc agtagtagct 1020
 69 caggaggaca gcccggctcc tgcaaggcct tccttgcagc cggacccaag gccacttgat 1080
 70 cacagggatc ctttgagca actggtgcca cgcggttctc accaccacca ccaccactga 1140
 73 <210> SEQ ID NO: 4
 74 <211> LENGTH: 10
 75 <212> TYPE: PRT
 76 <213> ORGANISM: Homo sapiens
 78 <400> SEQUENCE: 4
 79 Gly Asp Val Ala Asp Leu Pro Tyr Ala Leu
 80 1 5 10
 83 <210> SEQ ID NO: 5
 84 <211> LENGTH: 7
 85 <212> TYPE: PRT
 86 <213> ORGANISM: Homo sapiens
 88 <400> SEQUENCE: 5
 89 Arg Arg Leu Arg Ala Ser Trp
 90 1 5
 93 <210> SEQ ID NO: 6
 94 <211> LENGTH: 20
 95 <212> TYPE: PRT
 96 <213> ORGANISM: Homo sapiens
 98 <400> SEQUENCE: 6
 99 Ser Ile Leu Arg Pro Asp Pro Pro Gln Gly Leu Arg Val Glu Ser Val
 100 1 5 10 15
 102 Pro Gly Tyr Pro
 103 20
 106 <210> SEQ ID NO: 7
 107 <211> LENGTH: 7
 108 <212> TYPE: PRT
 109 <213> ORGANISM: Artificial Sequence
 111 <220> FEATURE:
 112 <221> NAME/KEY: SITE
 113 <222> LOCATION: (4)
 114 <223> OTHER INFORMATION: Xaa=basic amino acid
 116 <220> FEATURE:
 117 <223> OTHER INFORMATION: Description of Artificial Sequence: IL-11 binding
 118 peptide
 120 <400> SEQUENCE: 7
 121 Arg Arg Leu Xaa Ala Ser Trp
 122 1 5
 125 <210> SEQ ID NO: 8
 126 <211> LENGTH: 20
 127 <212> TYPE: PRT
 128 <213> ORGANISM: Mus musculus
 130 <400> SEQUENCE: 8
 131 Ser Ile Leu Arg Pro Asp Pro Pro Gln Gly Leu Arg Val Glu Ser Val
 132 1 5 10 15

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/491,982

DATE: 06/05/2001
TIME: 12:20:16

Input Set : A:\MDSP-P02-180 SeqList.txt
Output Set: C:\CRF3\06052001\I491982.raw

134 Pro Ser Tyr Pro
135 20
138 <210> SEQ ID NO: 9
139 <211> LENGTH: 22
140 <212> TYPE: PRT
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <221> NAME/KEY: SITE
145 <222> LOCATION: (18)..(20)
146 <223> OTHER INFORMATION: Xaa=suitable amino acid
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: IL-11 binding
150 peptide
152 <400> SEQUENCE: 9
153 Ser Ile Leu Arg Pro Asp Pro Pro Gln Gly Leu Arg Val Glu Ser Val
154 1 5 10 15
W--> 156 Pro Xaa Xaa Xaa Tyr Pro
157 20
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 7
162 <212> TYPE: PRT
163 <213> ORGANISM: Mus musculus
165 <400> SEQUENCE: 10
166 Arg Arg Leu His Ala Ser Trp
167 1 5
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 422
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 11
176 Met Ser Ser Ser Cys Ser Gly Leu Ser Arg Val Leu Val Ala Val Ala
177 1 5 10 15
179 Thr Ala Leu Val Ser Ala Ser Ser Pro Cys Pro Gln Ala Trp Gly Pro
180 20 25 30
182 Pro Gly Val Gln Tyr Gly Gln Pro Gly Arg Ser Val Lys Leu Cys Cys
183 35 40 45
185 Pro Gly Val Thr Ala Gly Asp Pro Val Ser Trp Phe Arg Asp Gly Glu
186 50 55 60
188 Pro Lys Leu Leu Gln Gly Pro Asp Ser Gly Leu Gly His Glu Leu Val
189 65 70 75 80
191 Leu Ala Gln Ala Asp Ser Thr Asp Glu Gly Thr Tyr Ile Cys Gln Thr
192 85 90 95
194 Leu Asp Gly Ala Leu Gly Gly Thr Val Thr Leu Gln Leu Gly Tyr Pro
195 100 105 110
197 Pro Ala Arg Pro Val Val Ser Cys Gln Ala Ala Asp Tyr Glu Asn Phe
198 115 120 125
200 Ser Cys Thr Trp Ser Pro Ser Gln Ile Ser Gly Leu Pro Thr Arg Tyr
201 130 135 140
203 Leu Thr Ser Tyr Arg Lys Lys Thr Val Leu Gly Ala Asp Ser Gln Arg

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/491,982

DATE: 06/05/2001
TIME: 12:20:16

Input Set : A:\MDSP-P02-180 SeqList.txt
Output Set: C:\CRF3\06052001\I491982.raw

204 145 150 155 160
206 Arg Ser Pro Ser Thr Gly Pro Trp Pro Cys Pro Gln Asp Pro Leu Gly
207 165 170 175
209 Ala Ala Arg Cys Val Val His Gly Ala Glu Phe Trp Ser Gln Tyr Arg
210 180 185 190
212 Ile Asn Val Thr Glu Val Asn Pro Leu Gly Ala Ser Thr Arg Leu Leu
213 195 200 205
215 Asp Val Ser Leu Gln Ser Ile Leu Arg Pro Asp Pro Pro Gln Gly Leu
216 210 215 220
218 Arg Val Glu Ser Val Pro Gly Tyr Pro Arg Arg Leu Arg Ala Ser Trp
219 225 230 235 240
221 Thr Tyr Pro Ala Ser Trp Pro Cys Gln Pro His Phe Leu Leu Lys Phe
222 245 250 255
224 Arg Leu Gln Tyr Arg Pro Ala Gln His Pro Ala Trp Ser Thr Val Glu
225 260 265 270
227 Pro Ala Gly Leu Glu Glu Val Ile Thr Asp Ala Val Ala Gly Leu Pro
228 275 280 285
230 His Ala Val Arg Val Ser Ala Arg Asp Phe Leu Asp Ala Gly Thr Trp
231 290 295 300
233 Ser Thr Trp Ser Pro Glu Ala Trp Gly Thr Pro Ser Thr Gly Thr Ile
234 305 310 315 320
236 Pro Lys Glu Ile Pro Ala Trp Gly Gln Leu His Thr Gln Pro Glu Val
237 325 330 335
239 Glu Pro Gln Val Asp Ser Pro Ala Pro Pro Arg Pro Ser Leu Gln Pro
240 340 345 350
242 His Pro Arg Leu Leu Asp His Arg Asp Ser Val Glu Gln Val Ala Val
243 355 360 365
245 Leu Ala Ser Leu Gly Ile Leu Ser Phe Leu Gly Leu Val Ala Gly Ala
246 370 375 380
248 Leu Ala Leu Gly Leu Trp Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly
249 385 390 395 400
251 Ser Pro Lys Pro Gly Phe Leu Ala Ser Val Ile Pro Val Asp Arg Arg
252 405 410 415
254 Pro Gly Ala Pro Asn Leu
255 420

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/491,982

DATE: 06/05/2001

TIME: 12:20:17

Input Set : A:\MDSP-P02-180 SeqList.txt
Output Set: C:\CRF3\06052001\I491982.raw

L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9